

Please amend the application as follows:

In the Claims

Please amend Claims 1, 17, 25, 32, 34, and 40.

1.

(Amended) A method for determining, in an electrical signal, a presence of sinusoids used to encode dialed digits, the method comprising:

splitting the electrical signal into subbands being at a sampling frequency of about a highest frequency of the sinusoids; and

analyzing energies within subbands to determine the presence of the sinusoids.

17.

(Amended) An apparatus, comprising:

a splitter to separate an electrical signal, including sinusoids corresponding to frequencies of dialed digits, into subbands being at a sampling frequency of about a highest frequency of the sinusoids; and

an analyzer to measure energies within the subbands to determine a presence of the sinusoids.

25.

(Amended) An apparatus, comprising:

an analog-to-digital converter sampling a received analog signal, including sinusoids corresponding to frequencies of dialed digits, and outputting a corresponding digital signal; and

a digital processor coupled to an output of the analog-to-digital converter to receive the digital signal, the digital signal processor executing program instructions to:

split the digital signal into subbands being at a sampling frequency of about a highest frequency of the sinusoids; and

analyze energies within the subbands to determine a presence of the sinusoids.

32.

(Amended) An apparatus, comprising:

SC1  
a4  
cont

means for splitting an electrical signal, including sinusoids corresponding to frequencies of dialed digits, into subbands being at a sampling frequency of about a highest frequency of the sinusoids; and

means for analyzing energies within the subbands to determine a presence of the sinusoids.

- a5  
SC2  
C1
34. (Amended) A computer-readable medium having stored thereon sequences of instructions, the sequences of instructions including instructions, when executed by a processor, causes the processor to perform:

splitting an electrical signal, including sinusoids corresponding to frequencies of dialed digits, into subbands being at a sampling frequency of about a highest frequency of the sinusoids; and

analyzing energies within the subbands to determine a presence of the sinusoids.

- a6  
SC3  
C1
40. (Amended) A voice-over-IP device, comprising:

a receiver receiving electrical signals composed of voice signals and dialed digit sinusoids corresponding to dialed digits;

a detector coupled to the receiver to monitor the electrical signals and to detect the dialed digit sinusoids, said detector including:

a splitter to split the electrical signal into subbands being at a sampling frequency of about a highest frequency of the sinusoids;

an analyzer to analyze energies within subbands to determine a presence of the sinusoids; and

a generator to generate packets of data comprising (i) voice signal data and (ii) information corresponding to the dialed digits.

Amendments to the claims are indicated in the attached "Marked Up Version of Amendments" (pages i - ii).

Please add new Claims 41- 52.

41. ~~(New)~~ The method according to Claim 1 wherein the sampling frequency is about 2 kHz.

42. ~~(New)~~ The method according to Claim 1 wherein splitting the electrical signal is performed at about the highest frequency of the sinusoids.

43. ~~(New)~~ The method according to Claim 1 wherein analyzing the energies is performed at about the highest frequency of the sinusoids.

44. ~~(New)~~ The apparatus according to Claim 17 wherein the sampling frequency is about 2 kHz.

45. ~~(New)~~ The apparatus according to Claim 17 wherein the splitter operates at about the highest frequency of the sinusoids.

46. ~~(New)~~ The apparatus according to Claim 17 wherein the analyzer operates at about the highest frequency of the sinusoids.

47. ~~(New)~~ The apparatus according to Claim 25 wherein the sampling frequency is about 2kHz.

48. ~~(New)~~ The apparatus according to Claim 25 wherein the program instructions to split the digital signal into subbands split the digital signal at about the highest frequency of the sinusoids.